PRODUCT DATA SHEET

Luminus LED Ballast
30W Single Output LED Ballast
LB-030-09-3A20-01-N

Features

Luminus LED Ballasts are ideal turn key solutions for high power LED lighting applications. The features, size and performance make them suitable for commercial lighting utilizing Luminus SST-90 devices for both indoor and outdoor installations.

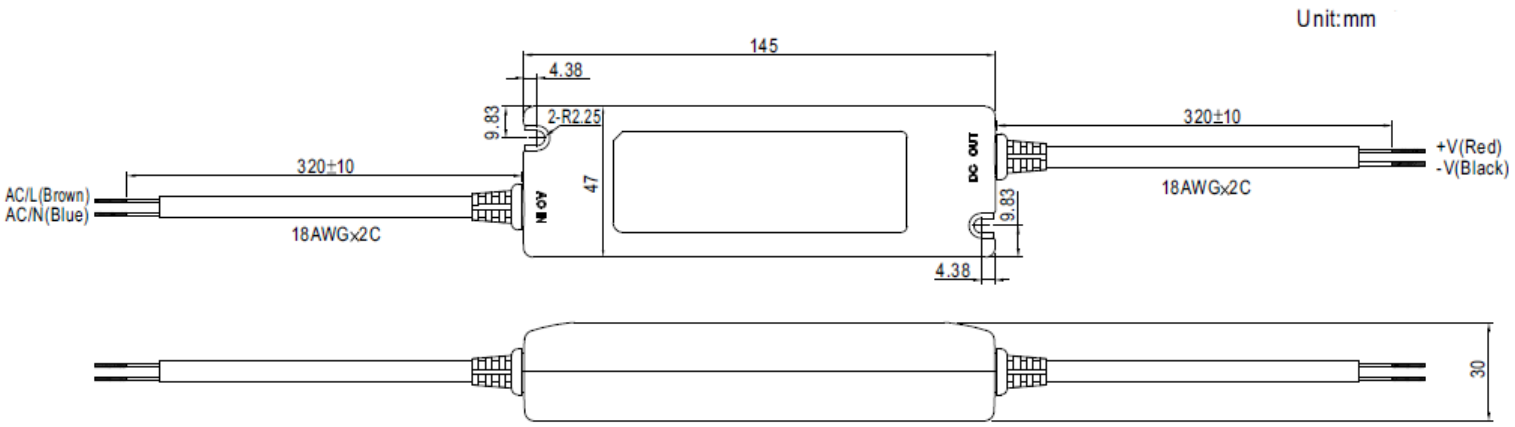
- Designed for Luminus SST-90 LED
- Capable of driving 1 to 3 LED's in series at 3.2A
- Universal AC Input
- Isolated plastic case with IP64 ingress protection
- Protections: Short circuit / Overload / Over voltage
- UL1310 Class 2 power supply
- Cooling by free air convection
- RoHS Compliant

RoHS Compliant CE IP64

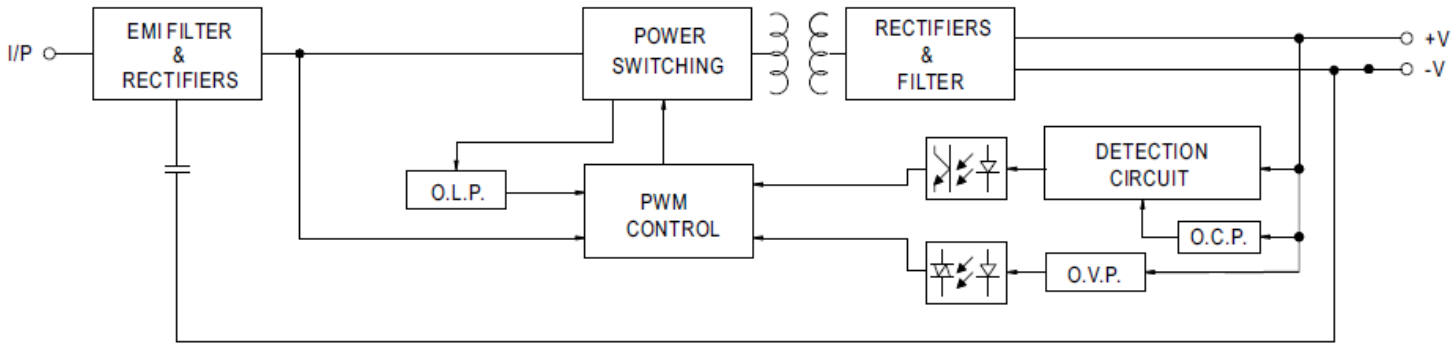
Specifications

Output	DC Voltage	9V
	LED Operating Voltage Note 7	3 ~ 9V
	Rated Current	3.2A
	Rated Power	30.6W
	Ripple & Noise Note 2	100mVp-p
	Voltage Tolerance Note 3	± 5.0%
	Load Regulation	± 2.0%
	Setup, Rise Time Note 6	500ms, 80ms / 230VAC 1000ms, 80ms / 115VAC at full load
	Hold Up Time (Typ.)	50ms/230VAC 16ms/115VAC at full load
Input	Voltage Range	90 ~ 264VAC
	Frequency Range	47 ~ 63Hz
	Efficiency (Typ.)	80%
	AC Current	0.75A/115VAC 0.48A/230VAC
	Inrush Current (Max.)	COLD START 60A/230VAC
	Leakage Current	0.25mA / 240VAC
Protection	Over Current Note 4	95 ~ 110%
		Protection type: Constant current limiting, recovers automatically after fault condition is removed
	Over Voltage	11 ~ 13.5V
		Protection type: Shut down o/p voltage, re-power on to recover
Environment	Working Temp	-20 ~ +60°C
	Working Humidity	20 - 90% RH non-condensing
	Storage Temp., Humidity	-40 ~ +80°C, 10 ~ 95% RH
Safety & EMC	Safety Standards	UL1310 Class 2, CAN/CSA C22.2 No. 223-M91, IP64 approved, design refer to TUV EN60950-1, EN61347-2-13
	Withstand Voltage	I/P-O/P: 3KVAC
	Isolation Resistance	I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH
	EMI Conduction & Radiation	Compliance to EN55022 (CISPR22) Class B
	Harmonic Current	Compliance to EN61000-3-2,-3
	EMS Immunity	Compliance to EN6100-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A
Other	MTBF	628.3Khrs min. MIL-HDBK-217F (25°C)
	Dimension	145 * 47 * 30mm (L*W*H)

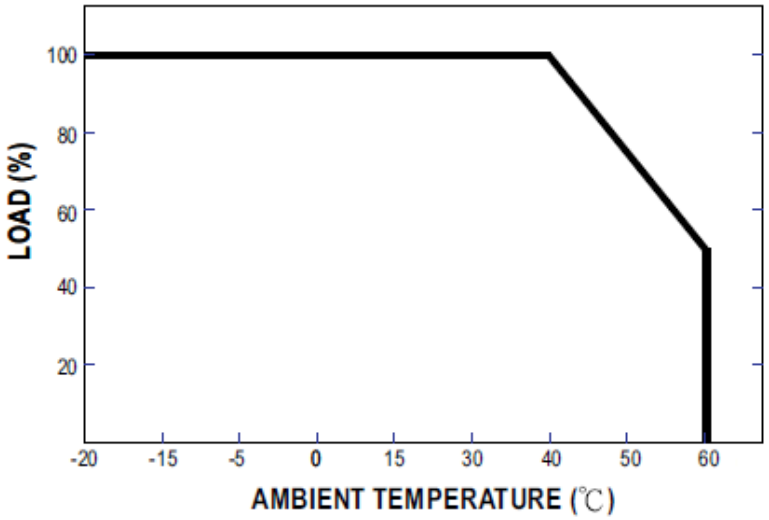
Mechanical Drawing



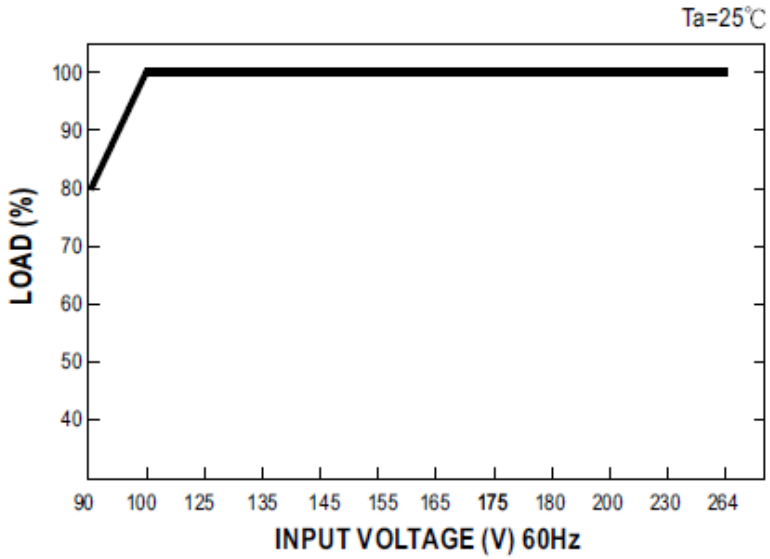
Block Diagram



Derating Curve



Static Characteristics



NOTES:

1. *All parameters NOT specially mentioned are measured at 230VAC, rated load and 25°C ambient temperature.*
2. *Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1uf & 47uF parallel capacitor.*
3. *Tolerance: includes set up tolerance, line regulation and load regulation.*
4. *Derating may be needed under low input voltage. Please check the derating curve for more details.*
5. *The power supply is considered a component which will be installed in final equipment. The final equipment muse be re-confirmed that it still meets EMC directives.*
6. *Length of set up time is measured at first cold start. Turning the power supply ON/OFF may lead to increase of set up time.*
7. *Constant current operation region is within the specified output voltage range above. This is the suitable operation region for LED related applications.*

Ordering Information

Ordering Part Number	Description
LB-30-09-3A20-01-N	30W LED ballast, 3 - 9V / 3.2A output

www.luminus.com